SHARP

**DVD MICRO COMPONENT SYSTEM**

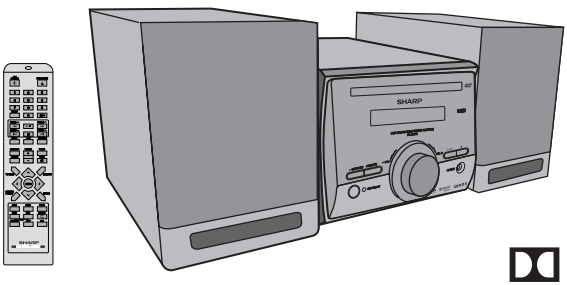
**MODEL**

# XL-DV75HMKII

## OPERATION MANUAL

**Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.**

XL-DV75HMKII DVD Micro Component System consisting of XL-DV75HMKII (main unit) and CP-DV75H (speaker system).



HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

DOLBY DIGITAL

DIVX®

DVD VIDEO™

COMPACT disc DIGITAL AUDIO

CD-R/RW Playable

dts™ Digital Out

MP3

Plays Windows Media™

R·D·S

Low Power Standby SAVING ENERGY STAND-BY POWER CONSUMPTION 0.4W

## Special Notes

**WARNINGS**

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not turn the volume on to full at switch on. Listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.

**Note for users in Australia:**

Copyright may exist in material you wish to record. Copying or broadcasting such material without permission of the relevant licensees or owners of the copyright is prohibited by law. SHARP is not in a position to authorise the copying or broadcasting of copyright materials and nothing in this OPERATION MANUAL should be implied as giving that authority.

**For other countries:**

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to the relevant laws in your country.

**CAUTIONS**

- This product is classified as a CLASS 1 LASER PRODUCT.
- This unit contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

**Copyright Information:**

- Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a video tape.

**Copy Protection:**

This unit supports Macrovision copy protection.
On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

U.S. Patent Nos. 6,836,549; 6,381,747; 7,050,698; 6,516,132; and 5,583,936.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.

Use of this copyright protection technology must be authorised by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovisioin Corporation.

Reverse engineering or disassembly is prohibited.

Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

“HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.”

DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

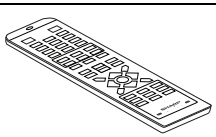
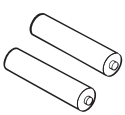
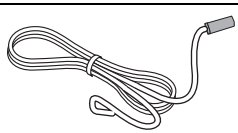
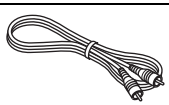
Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Out are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2007 DTS, Inc. All Rights Reserved.

## Special Note

Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com
MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

## Accessories

Please confirm that the following accessories are included.

| | | | |
|---|---|---|---|
|  |  |  |  |
| **Remote control x 1** | **“AAA” size battery (UM-4, R03, HP-16 or similar) x 2** | **FM aerial x 1** | **Video cable x 1 (Yellow)** |

## CONTENTS


Page

### General Information
Precautions . . . . . 4
Controls and indicators . . . . . 4 - 5
Types of playable discs . . . . . 6
Description of discs . . . . . 7

### Preparation for Use
System connections . . . . . 8 - 9
Remote control . . . . . 9
Changing the setup menu . . . . . 10 - 14

### Basic Operation
General control . . . . . 15

### DVD Operation
**DVD playback**
Playback . . . . . 16
To resume playback after stopping (resume play) . . . . 16
DVD mode operation indicators . . . . . 16
**Basic operation**
To locate the beginning of a chapter (track) (skip) . . . . 17
Fast forward/Fast backward (search) . . . . . 17
To play in the desired order (programmed play) . . . . . 17
To start playback from the desired point (direct play) . . . . . 17 - 18
**Useful operation**
Still picture. . . . . 18
Step function (Frame by frame advance playback). . . . 18
Slow-motion play. . . . . 18 - 19
To change the angle . . . . . 19
To zoom images (zoom) . . . . . 19
To play repeatedly (repeat play) . . . . . 19
To play the contents between the specified points repeatedly (A-B repeat). . . . . 20
To select a title from the top menu of the disc . . . . . 20
To select a subtitle or audio language from the disc menu . . . . . 20
**Various settings**
To change the subtitle language. . . . . 20
To change the audio channel . . . . . 21
To change the display on TV screen. . . . . 21

Page

### Video CD and Super Video CD Operation
**Video CD and Super Video CD playback**
Playback of a video CD (super video CD) with P.B.C. ON . . . . . 22
To play without activating the playback control function . . . . . 22
To start playback from the desired point (direct play) . 22
Random play . . . . . 23
Disc digest selection . . . . . 23
Track digest selection . . . . . 23

### CD, CD-R and CD-RW Operation
**CD operation**
To play in the desired order (programmed play) . . . . . 24
To start playback from the desired point (direct play) . . . . . 24
**MP3 and JPEG disc operation**
To start playback from the desired point (direct play) . . . . . 25
Playback on the MP3 menu screen . . . . . 25
To play repeatedly (repeat play) . . . . . 25 - 26
Rotating a picture . . . . . 27
Simultaneously playback the MP3 and JPEG . . . . . 27
Random play (REMOTE CONTROL ONLY) . . . . . 27
MP3/WMA folder mode (only for MP3/WMA files) . . . . 28

### Radio Operation
Listening to the radio . . . . . 29

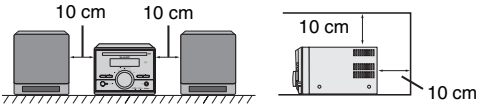
### Advanced Features
Using the Radio Data System (RDS) . . . . . 30 - 32
Enhancing your system . . . . . 32

### References
Troubleshooting chart . . . . . 32 - 33
Maintenance . . . . . 34
Specifications . . . . . 34

# Precautions

## ■ General

- Please ensure that the equipment is positioned in a well-ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.



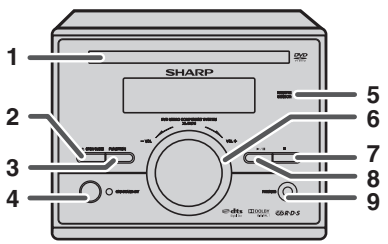

- Use the unit on a firm, level surface free from vibration.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- The AC power plug is used as a disconnect device and shall always remain readily operable.
- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).
- The apparatus is designed for use in moderate climates.

**Warning:**
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

## ■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.

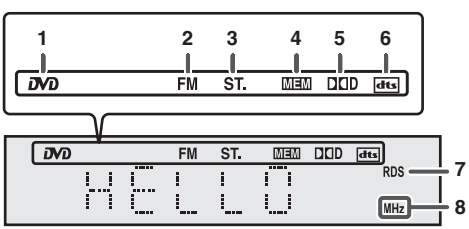
# Controls and indicators




## ■ Front panel

**Reference page**

1. **CD Compartment** . . . . . .16
2. **Open/Close Button** . . . . . .16
3. **Function Button** . . . . . .29
4. **On/Stand-by Button** . . . . . .10, 15, 16, 29
5. **Remote Sensor** . . . . . .9
6. **Volume Control** . . . . . .15
7. **Stop Button** . . . . . .16
8. **DVD/CD Play/Pause Button** . . . . . .16, 18, 22, 24
9. **Headphone Socket** . . . . . .32



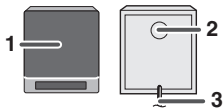

## ■ Display

**Reference page**

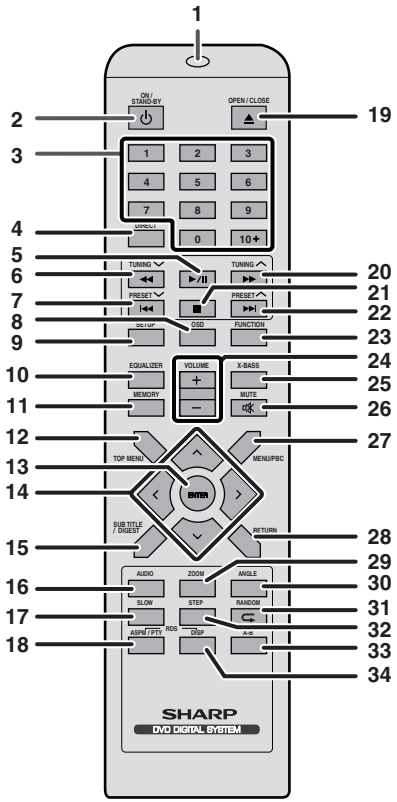
1. **DVD Indicator** . . . . . .16
2. **FM Indicator** . . . . . .29
3. **FM Stereo Mode Indicator** . . . . . .29
4. **Memory Indicator** . . . . . .29
5. **Dolby Digital Signal Indicator** . . . . . .21
6. **DTS Indicator** . . . . . .21
7. **RDS Indicator** . . . . . .30
8. **Tuner Receiving Frequency Indicator** . . . . . .29

## ■ Speaker system

1. Full Range
2. Bass Reflex Duct
3. Speaker Wire




## ■ Remote control




Reference page

1. Remote Control Transmitter . . . . . .9
2. On/Stand-by Button . . . . . .10, 15, 16, 29
3. Direct Search Buttons . 17, 18, 22, 23, 24, 25, 277
4. Direct Button . . . . . 17, 18, 22, 24, 25, 27
5. DVD/CD Play and Pause Button . . . . . .17, 22, 23, 24, 27, 29
6. Fast Reverse or Tuning Down Button . . . . . .17, 29
7. Chapter (Track) Skip Down or Preset Down Button . . . . . .17, 22, 23, 24, 29
8. On Screen Display On/Off Button . . . . . 21
9. Setup Button . . . . . .10, 11, 13, 14
10. Equaliser Button . . . . . .15
11. Memory Button . . . . . 17, 24, 26, 29
12. Top Menu Button . . . . . .20
13. Enter Button . . . . .10, 17, 18, 20, 22, 23, 24, 25, 27
14. Cursor Buttons . . . . . .17, 18, 22, 24, 25, 26, 28
15. Subtitle/Digest Button . . . . . .20, 23, 24
16. Audio Button . . . . . .21
17. Slow Button . . . . . .18, 19
18. RDS ASPM/PTY Button. . . . . .30, 31
19. Disc Tray Open/Close Button . . . . . .16
20. Fast Forward or Tuning Up Button . . . . . .17, 29
21. Stop Button . . . . . .16, 19, 22, 23, 24, 26
22. Chapter (Track) Skip Up or Preset Up Button . . . . . .17, 22, 23, 24, 27, 29
23. Function Button . . . . . .29
24. Volume Up and Down Buttons . . . . . .15
25. X-Bass Button . . . . . .15
26. Mute Button . . . . . .15
27. Menu/PBC Button . . . . . .20, 22, 26
28. Return Button . . . . . .22
29. Zoom Button . . . . . .18, 19
30. Angle Button . . . . . .18, 19
31. RANDOM/Repeat Button. . . . .19, 23, 24, 25, 26, 27
32. Step Button . . . . . .18
33. A-B Repeat Button. . . . . .20
34. RDS Display Button. . . . . .30, 31

## Types of playable discs

The DVD player can play back discs bearing any of the following marks:

| Disc type | Disc contents |
|---|---|
| DVD Video Disc | Audio and video (movies) |
| Super Video CD | Audio and video (movies) |
| Video CD | Audio and video (movies) |
| Audio CD | Audio |
| CD-R/CD-RW (*1)<br>Or CD-R/CD-RW recorded in JPEG format (*2) (*3) | Audio and picture |
| DivX® Video disc (Ver 5.2 and below) | Audio and video (movies) |

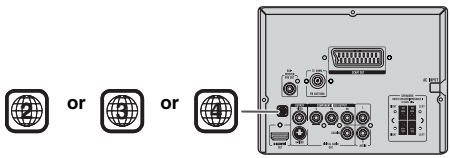
(*1): The CD-R/CD-RW may not be played back properly depending on the recording equipment or the disc.

(*2): JPEG or JPG picture discs also play on this unit. However, pictures may not be clear (depends on resolution and recording method).

(*3): Maximum JPEG file size is 10Mb.
If photo bigger than this size, it will take some time for the file to be displayed.

● For unplayable discs, see page 7.

Types of playable DVD discs vary depending on the region. This unit can play back only DVDs with the same region number are written on the back of the unit.




**Icons used in this operation manual**

Some functions may not be available depending on discs. The following icons indicate the discs that can be used in the section.

- DVD ... Indicates DVDs.
- SVCD ... Indicates Super video CDs.
- VCD ... Indicates video CDs.
- CD ... Indicates audio CDs.
- JPEG ... Indicates CD-R/RW with JPEG recording.
- DivX ... Indicates DivX® Video.

- Some operations may not be performed depending on discs even if they are described in this manual.
- During operation, "⊘" may be displayed on the screen. This means that the operations described in this manual are not possible.

**Copyright Information:**

- Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a videotape.
- This system is protected by U.S. patents and other intellectual property rights, the copyright for which belongs to Macrovision Corporation. The use of Macrovision's copy protection technology in the system is authorised by Macrovision and is intended for home use only, unless otherwise authorised in writing by Macrovision. Reverse engineering or disassembly is prohibited.

## ■ Discs that cannot be played

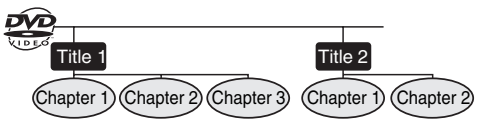
- DVDs without the region number on the disc.
- DVDs with SECAM system
- DVD-ROM
- DVD-RAM
- DVD-Audio
- CDG
- CDV
- Photo CD
- CD-ROM
- SACD
- Discs recorded in special formats, etc.

- The discs above cannot be played at all, or no sound is heard although images appear on the screen or vice versa.
- Incorrect operation may damage the speakers and can have a negative effect on your hearing when played at high volume settings.
- You cannot play illegally produced discs.

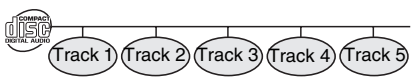
**Notes:**
- A disc which has scratches or fingerprints may not play properly. Refer to “Care of compact discs” (page 33) and clean the disc.
- Do not play the discs of special shapes (heart or octagon shaped) as they can be ejected whilst rotating and cause injury.

## ■ Title, chapter and track

DVDs are divided into “titles” and “chapters”. If the disc has more than one movie on it, each movie is a separate “title”. “Chapters” are subdivisions of titles.




Audio CDs consist of “tracks”.
A “track” is each tune on an audio CD.




**Note:**
Title, chapter, or track numbers may not be recorded on some discs.

## ■ DivX®

- Official DivX Certified™ product.
- Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files. (DivX® version cannot be upgraded on this product.)

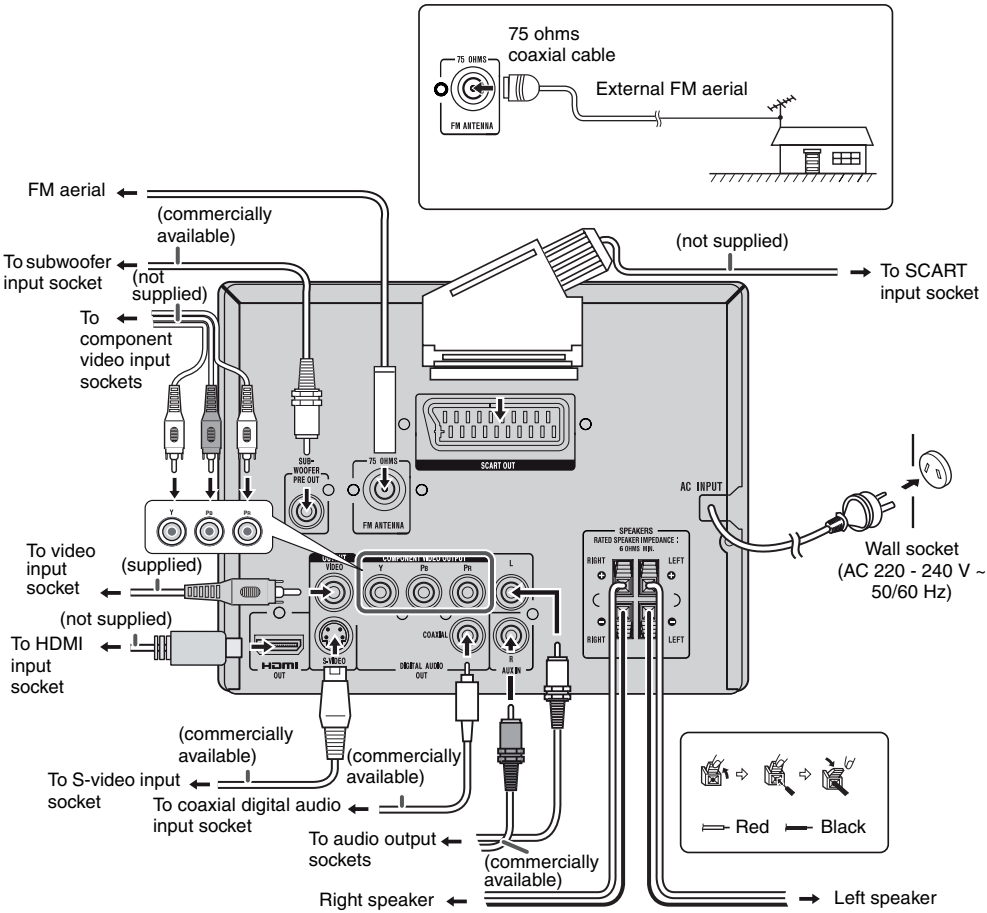
## ■ Icons used on DVD discs

Check the icons on the DVD case before playing your discs.

| Display | Description |
|---|---|
| Region number (playable area number) | DVD discs are programmed with region numbers indicating countries in which they can be played. This system can play discs with region number on the back of the unit. |
| Format recorded on the DVD | To adopt the video format to the connected TVs (“wide-screen TV” or “4:3 size TV”). |
| 4:3 | Recorded in 4:3. |
| 16:9 LB | You can enjoy wide images on a wide-screen TV and letterbox size images on the 4:3 size TV. |
| 16:9 PS | You can enjoy wide images on a wide-screen TV and 4:3 images with the side edges cut on the 4:3 size TV. |
| **Type of subtitles recorded** Example: 1: English 2: French | Recorded subtitle languages. Language can be selected with the SUB TITLE/DIGEST button. |
| **Number of camera angles** | Number of angles recorded on the DVD. Angles can be selected with the ANGLE button. |
| **Number of audio tracks and audio recording systems** Example: 1: Original <English> (Dolby Digital 2 Surround) 2: English (Dolby Digital 5.1 Surround) | The number of audio tracks and audio recording systems are indicated. ● The audio recorded on the DVD can be switched by using the AUDIO button. ● The number of audio tracks and recording systems vary depending on the DVD. Check them in the DVD's manual. |

## System connections

**Make sure to unplug the AC power lead before making any connections.**




### ■ Aerial connection

**Supplied FM aerial:**
Connect the FM aerial wire to the FM ANTENNA 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

**Note:**
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

### ■ External FM aerial

Use an external FM aerial if you require better reception. Consult your dealer.

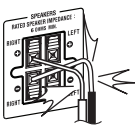
**Note:**
When an external FM aerial is used, disconnect the supplied FM aerial wire.

## ■ Speaker connection

Connect the black wire to the minus (–) terminal, and the red wire to the plus (+) terminal.

**Caution:**

- Use speakers with an impedance of 6 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. You may be injured.




**Incorrect**

## ■ AC power connection

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the stand-by mode.

**Note:**

Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

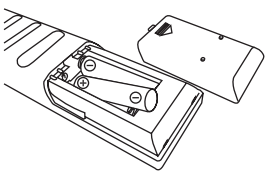
# Remote control

## ■ Battery installation

1 Open the battery cover.

2 Insert the supplied batteries according to the direction indicated in the battery compartment.
When inserting or removing the batteries, push them towards the ⊖ battery terminals.

3 Close the cover.



**Precautions for battery use:**

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

**Caution:**

- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.
- Batteries (battery packed or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

**Battery removal:**

Open the battery cover and pull up the battery to take out.

**Notes concerning use:**

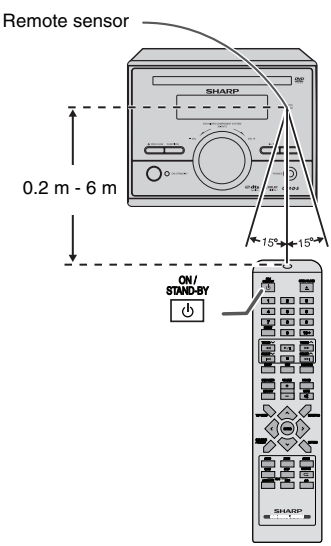
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 “AAA” size batteries (UM-4, R03, HP-16 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit if this occurs.
- Keep the remote control away from moisture, heat, shock, and vibrations.

## ■ Test of the remote control

After installing the unit (see pages 8 - 9), check that the remote control operates correctly.
Point the remote control directly at the remote sensor on the unit.

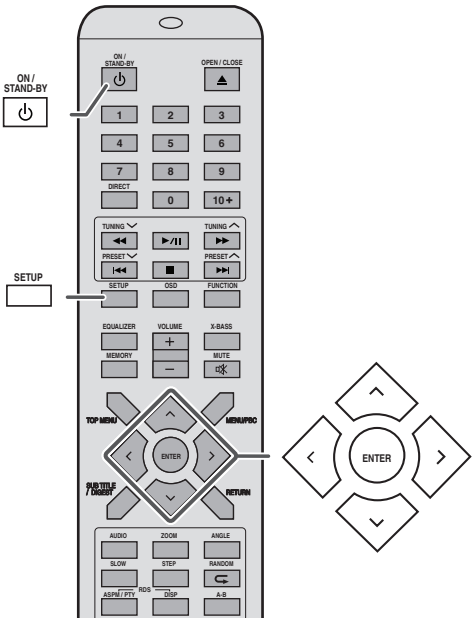
**The remote control can be used within the range shown below:**

Press the ON/STAND-BY button. Does the power turn on? Now, you can use the unit.



## Changing the setup menu

**Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.**




**1** Press the ON/STAND-BY button to turn the power on.
- The startup screen appears.
- The startup screen does not appear when the input is not set to the disc mode. Press the FUNCTION button to select DVD/CD mode.

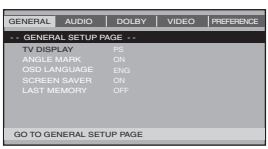
**2** Press the SETUP button.

**3** Press the ◄ or ► button to select a menu and press the ENTER button.
- See the list on pages 10 - 13 for setup menu.

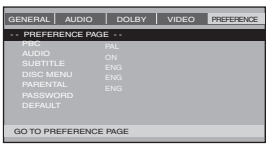
**4** Press the ▲, ▼, ◄ or ► button to change the setting and press the ENTER button.
- See the list on pages 10 - 13 for the selectable parameters.

**5** Press the SETUP button.
- The setting is completed.
- To change other settings, begin from step 2.

**Notes:**
- During playback, "PREFERENCES" settings cannot be changed.
- Settings are stored even if the unit is set to the stand-by mode.
- The backup function protects the stored settings for a few hours should there be a power failure or the AC power lead disconnection.
- If the startup screen is blurred, change the TV type in the setup menu.

| Setup menu | Selectable parameters (* indicates default setting) | | | Description |
|---|---|---|---|---|
| **General** |  | TV DISPLAY | 4:3 PANSCAN*<br>4:3 LETTERBOX<br>16:9 WIDE<br>SQUEEZE | The screen mode should be set according to the connected TV type (for details, see page 13). |
| | | ANGLE MARK | ON*<br>OFF | |
| | | OSD LANGUA-GE | ENGLISH*<br>FRENCH<br>GERMAN<br>ITALIAN<br>PORTUGUESE<br>SPANISH | You can select the desired OSD (On Screen Display) language for the setup menu or playback control screen. |
| | | SCREEN SAVER | ON* | A screen saver appears. |
| | | | OFF | The screen saver disabled. |
| | | LAST MEMORY | ON* | If accidentally push ON/STAND-BY or OPEN/CLOSE or FUNCTION button during playback mode, you can resume playback from the point playback is stopped after power on back or you push the OPEN/CLOSE button to close the disc tray. |
| | | | OFF | Last memory not function. |

| Setup menu | Selectable parameters (* indicates default setting) | | | | Description |
|---|---|---|---|---|---|
| **Audio** | | ANALOG AUDIO | DOWNMIX | LT/RT<br>STEREO* | |
| | | DIGITAL AUDIO | DIGITAL OUTPUT | SPDIF OFF<br>SPDIF/RAW*<br>SPDIF/PCM | Useful whilst using HDMI cable. When playing a disc recorded with Dolby Digital or DTS, the corresponding digital signals will be output from the HDMI Output socket.<br>● PCM : Choose this setting if the HDMI TV cannot support Dolby Digital or DTS to avoid noise or mute from the TV.<br>● RAW : Choose this setting if the HDMI TV can support Dolby Digital or DTS. |
| | | | LPCM OUTPUT | 48K*<br>96K | Select the sampling frequency at 48 kHz/16 bit or 96 kHz/24 bit capability after you select SPDIF/PCM at SPDIF SETUP. |
| **Dolby** | | DUAL MONO | STEREO*<br>L-MONO<br>R-MONO<br>MIX-MONO | | |
| | | DYNAMIC (*1) | FULL | | Audio with fully compressed dynamic range. |
| | | | 3/4<br>1/2<br>1/4 | | Audio with partially compressed dynamic range. |
| | | | OFF* | | Audio with uncompressed dynamic range. |
| **Video** | | VIDEO OUTPUT (*2) | S-VIDEO<br>COMPONENTS<br>SCART* | | ●S-VIDEO : Choose this setting for S-VIDEO output.<br>●COMPONENTS: Choose this setting for COMPONENT output.<br>●SCART : Choose this setting for SCART output. |
| | | RESOLUTION | 480I<br>576I<br>720P (50Hz)*<br>1080I (50Hz)<br>1080P (50Hz)<br>720P (60Hz)<br>1080I (60Hz)<br>1080P (60Hz) | | You can select HDMI resolution whilst using HDMI cable.<br>If you use TV without multi-system (PAL or NTSC only) whilst doing HDMI setup, select any resolution with 50 Hz only for PAL system. Whilst for TV with NTSC system, select any resolution with 60 Hz. |
| | | COLOR SETTING | SHARPNESS | HIGH<br>MEDIUM*<br>LOW | |
| | | | BRIGHTNESS | -20 –> 0* –> +20 | |
| | | | CONTRAST | -16 –> 0* –> +16 | |

| Setup menu | Selectable parameters (* indicates default setting) | | | | Description |
|---|---|---|---|---|---|
| | | | GAMMA | HIGH<br>MEDIUM*<br>LOW<br>NONE | |
| | | | HUE | -9 –> 0* –> +9 | |
| | | | SATURA-TION | -9 –> 0* –> +9 | |
| | | | LUMA DELAY | 0T*<br>1T | |
| | | DivX VOD | OK | | SHARP provide you the DivX registration code that allows you to rent and purchase videos using the DivX service. Please go to www.divx.com/vod for more information. |
| | | HDMI SETUP | HDMI | ON*<br>OFF | |
| | | | AUDIO SOURCE | AUTO* | |
| | | | | PCM | |
| **Preference** |  | TV TYPE | PAL*<br>AUTO<br>NTSC | | Please refer page 13. |
| | | PBC | ON*<br>OFF | | Please refer page 22. |
| | | AUDIO | ENGLISH*<br>GERMAN<br>FRENCH<br>PORTUGUESE<br>SPANISH<br>ITALIAN | | Select the language audible from the speakers. |
| | | SUBTITLE | ENGLISH*<br>GERMAN<br>FRENCH<br>PORTUGUESE<br>SPANISH<br>ITALIAN<br>OFF | | Select the subtitle displayed on the TV screen. |
| | | DISC MENU | ENGLISH*<br>GERMAN<br>FRENCH<br>PORTUGUESE<br>SPANISH<br>ITALIAN | | |
| | | PARENTAL | 1 KID SAFE<br>2 G<br>3 PG<br>4 PG 13<br>5 PGR<br>6 R<br>7 NC 17<br>8 ADULT* | | Set a restriction level for DVD viewing. (For details, see page 14) |
| | | PASSWORD | PASSWORD | CHANGE | See page 14 for password setting. |
| | | DEFAULT | RESET | | This resets all setting (Except for Parental and Password) to factory default. |

(*1)
Selects the dynamic range compression to fit the individual listening situation of the audience. This function can be used in DVD playback.
Depending on the disc, sounds may become too loud or inaudible during playback. Dolby Digital's dynamic range control allows you to adjust the sound range.
(*2)
Selecting resolution in SCART/COMPONENTS output has no effect on the SCART/COMPONENTS output resolution.

## ■ TV display setting

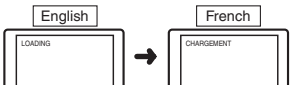
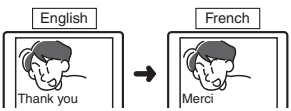
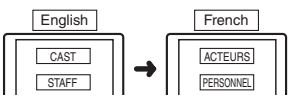
| Indicator | Setting |
|---|---|
| 4:3 PANSCAN | When playing a wide image (16:9) disc, the left and right sides of the image are cut (pan scan) to display a natural-looking 4:3 size image.<br>A wide image disc without pan scan [PS] is played back in 4:3 letterbox.<br>A 4:3 disc is played in 4:3. |
| 4:3 LETTERBOX | When playing a wide image (16:9) disc, black bands are inserted at the top and bottom and you can enjoy full wide images (16:9) on a 4:3 size TV.<br>A 4:3 disc is played in 4:3. |
| 16:9 | A wide image (16:9) is displayed when playing a wide image (16:9) disc. <br>● When playing a 4:3 image disc, the image size depends on the setting of the connected TV.<br>● If you play back a wide image (16:9) disc with this unit connected to a 4:3 TV, the vertically shrunk image is displayed. |
| WIDE SQUEEZE | When play 4:3 disc with this unit connected to a 16:9 TV (wide screen TV), the horizontally expended image is displayed. If you use this setting, a natural looking image 4:3 size can be viewed with the black bands are inserted at the left and right of the screen. <br>● If you playback a wide image (16:9) disc with 4:3 TV, the vertically shrunk image is displayed. |

**Note:**
When playing the disc with a fixed video format, it will not change even if the TV screen size is changed.

## ■ TV type setting

| Indicator | Setting |
|---|---|
| AUTO | Select this mode for the multi-system TV. |
| NTSC | Select this mode for the NTSC TV. |
| PAL | Select this mode for the PAL TV. |

## ■ Language setting

| Indicator | Setting |
|---|---|
| OSD LANGUAGE | A language for screen display can be set for the setup menu, messages, etc.   |
| AUDIO | A language for audio can be set. You can specify a language for conversation and narration. |
| SUBTITLE | A language for subtitle can be set. The subtitles are displayed in a specified language.   |
| DISC MENU | A language for disc menus can be set. Menu screens are displayed in a specified language.   |

## ■ Parental setting

**1** Select “PREFERENCES” on the setup menu screen (see steps 1 - 3 on page 10).

**2** After selecting “PARENTAL” in step 4 on page 10, select the parental level and press the ENTER button.

**3** Enter a 6-digit password using the Direct Search buttons and press the ENTER button.

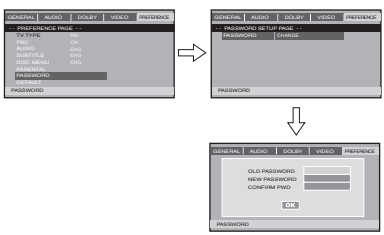
* If this is the first time, enter “000000”.

| Indicator | Setting |
|---|---|
| 1 KID SAFE | Only DVD software intended for children can be played back. |
| 2 G to 7 NC-17 | Only DVD software intended for general use and children can be played back. |
| 8 ADULT | DVD software of any grade (adult/ general/ children) can be played back. |

**Note:**
Whilst playing a disc with parental lock, the display may appear requesting a password in order to watch some restricted scenes. In such case, enter the password to temporarily change the parental level.

## ■ Password setting

From the setup menu, select “PASSWORD SETUP PAGE”, “PASSWORD” and then “CHANGE”. A screen appears.




**1** Enter the old password using the Direct Search buttons. (If this is the first time, enter “000000”).

**2** Enter the new password using the Direct Search buttons.

**3** Enter the new password again for confirmation.

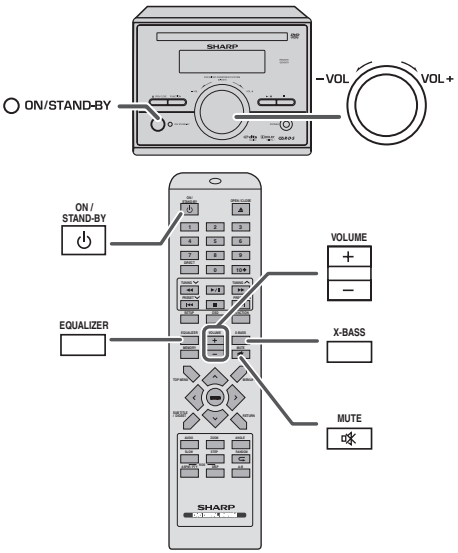
**Note:**
When you forget your password, follow below sequence.

At setup menu, select “PASSWORD SETUP PAGE”, “PASSWORD” and then “CHANGE”.

**1.** Enter the old password as “000000” using the Direct Search buttons.

**2.** Enter the new password.

**3.** Enter the new password again for confirmation.




## ■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

**After use:**
Press the ON/STAND-BY button to enter the power stand-by mode. At STAND-BY mode, red indicator will light up.

## ■ Auto power off function

In the stop mode of DVD/CD operation, the main unit enters the stand-by mode after 15 minutes of inactivity.

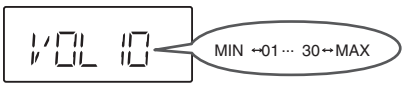
## ■ Volume auto set-in

- If you turn off and on the main unit with volume set to 16 or higher, the volume will start at 16.
- If you turn the unit off then on again with the volume level set to less than 15, it will turn on again at the level set.

## ■ Volume control

**Main unit operation:**
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

**Remote control operation:**
Press the VOLUME (+ or –) button to increase or decrease the volume.




## ■ Extra bass control (X-BASS)

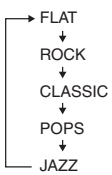
When the X-BASS button is pressed, the unit will enter the extra bass mode which emphasises the bass frequencies and “X-BASS ON” will appear.
To cancel the extra bass mode, press the X-BASS button again.

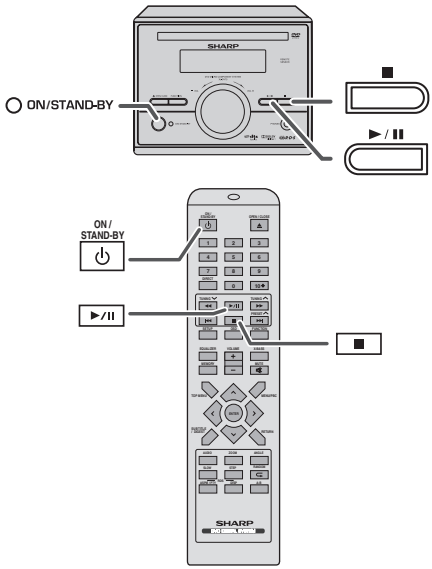
## ■ Muting

The volume is muted temporarily when pressing the MUTE button on the remote control. Press again to restore the volume.
* TV screen displays “MUTE” when press MUTE button.

## ■ Equaliser

When the EQUALIZER button on the remote control is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER button repeatedly until the desired sound mode appears.






## ■ Playback

DVD CD MP3 JPEG DivX SVCD VCD

**1** Press the ON/STAND-BY button to turn the power on.

**2** When the input is not set to the disc mode, press the FUNCTION button repeatedly to display the startup screen.
The startup screen appears.

**3** Press the ▲ (▲) button to open the disc tray.

**4** Place the disc on the disc tray, label side up.
Be sure to place 8 cm discs in the middle of the disc position.

**5** Press the ▲ (▲) button to close the disc tray.
Discs supporting auto start will start to play once you close the disc tray even if you do not press the ►/II (►/II) button.

**6** If playback does not start in step 5, press the ►/II (►/II) button.

**Note:**
During operate FM/AUX, OPEN/CLOSE CD tray will change to DVD function.

**To interrupt playback:**
Press the ►/II (►/II) button.
To resume playback from the same point, press the ►/II (►/II) button.

**To stop playback**
**DVD:**
Press the ■ (■) button twice.

**Audio CD/MP3**
Press the ■ (■) button.

When the unit is left unoperated for more than 5 minutes after pressing the ■ (■) button, a screen saver appears (see page 10 when the screen saver setting is “ON”). Press any button on the main unit or remote control. The startup screen returns.

**Caution:**
- Close the disc tray when not in use. Otherwise, dust may accumulate inside and cause malfunction.
- The unit gets slightly warm when used for a long time. It does not mean the unit is damaged.
- When attempting to play discs with scratches or of a different region number, or unplayable or restricted (*1) discs, an error message will appear on the TV display and the disc will not play.

(*1) Viewing is prohibited on some DVDs according to the audience age.

**Notes:**
- During disc initialisation, the volume cannot be adjusted.
- Stop positions may be recorded on some discs. When you play such a disc, playback stops there.
- During an operation, “⊘” may appear indicating that the operation is disabled by the disc.
- The main unit detects loaded discs automatically and then the indicators light up.

## ■ To resume playback after stopping (resume play)

DVD

You can resume playback from the point playback is stopped.

**1** Whilst a disc is playing, press the ■ (■) button.
The system stores the point you stopped.

**2** To restart play, press the ►/II (►/II) button.
Play resumes from the point you stopped.

**To cancel the resume playback:**
Press the ■ (■) button twice.

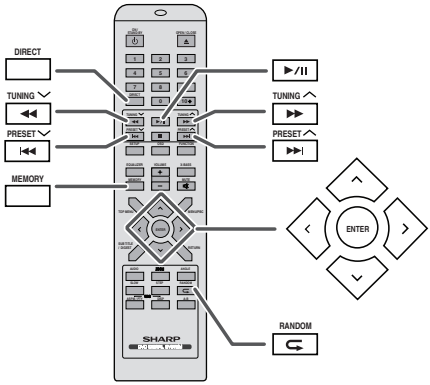
**Notes:**
- The resume playback feature is disabled on some discs.
- Depending on the disc, playback may resume from slightly before the stopped position.

## ■ DVD mode operation indicators

DVD

The following are examples of operation indicators that appear during DVD playback.

| Operation | TV screen | Unit display |
|---|---|---|
| When the power is on without a disc. | NO DISC | NO DISC |
| Disc data is being read. | LOADING | LOADING |
| Stop | | STOP |
| Play | | 001 0009 |
| Pause | | 001 0009 |




## ■ To locate the beginning of a chapter (track) (skip)

DVD SVCD VCD CD MP3 JPEG

You can move to other tracks with simple operations. When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 22).

**Whilst a disc is playing, press the ⏮ or ⏭ button.**

- Use the ⏭ button to skip to the next chapter (track).
- Use the ⏮ button to skip to the previous chapter (track).
- On SVCD, VCD and Audio CD, press the ⏮ button to skip to the beginning of the current track. Press the ⏮ button again (twice) to skip to the beginning of the previous track.

**Notes:**

- Some discs do not display the chapter (track) and the skip feature is disabled.
- On a DVD, skip does not operate between titles.

## ■ Fast forward/Fast backward (search)

DVD SVCD VCD CD MP3 DivX

You can search the desired point as you play the disc.

**1** Whilst a disc is playing, press the ◀◀ or ▶▶ button.
Example: When the ▶▶ button is pressed.
On DVD/DivX/SVCD/VCD/Audio CD/MP3, the speed changes as follows:

PLAY (Normal play) → 2 X → 4 X → 8 X → 16 X → 32 X

The disc is forwarded by the ▶▶ button and backward by the ◀◀ button.

**2** Press the ►/II (►/II) button to return to the normal playback.

**Notes:**

- On some discs, the search function is disabled.
- On a DVD, search does not operate between titles.
- On SVCD, VCD, DivX and MP3, the search does not operate between tracks.
- Whilst searching on a DVD, the sound is not heard and the subtitles do not appear.
- Whilst searching on a SVCD or a VCD, the sound is not heard.
- When search is performed during the DVD playback, pictures may not be forwarded or reversed in the search speed specified in this manual, depending on the disc or the scene being played.
- The search does not operate on JPEG discs.

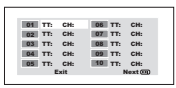
## ■ To play in the desired order (programmed play)

DVD

You can playback the desired tracks with titles or chapters in a specific order. Maximum of 20 tracks can be programmed.

**1** Whilst in the stop or playback mode, press the MEMORY button.

**TV screen**

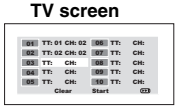



**2** Enter title or chapter number with the Direct Search buttons.

- To specify title or track 1, enter “1”.
- If you enter the wrong numbers, press ▲ or ▼ button to select the concerned track and then reenter the new numbers.
- To clear all the numbers those entered, press MEMORY button twice.

**3** Press ▼ button to select “Start” and then press ENTER button to start playback the programmed track(s).

**TV screen**




**To change the programmed contents:**
Repeat the above procedures from step 1.

**Programmed contents will be cleared when you perform the following operations:**

- Change to another function or remove the discs.
- Set to the stand-by mode.
- Press the cursor button to select “Clear” and then press ENTER button.

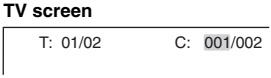
## ■ To start playback from the desired point (direct play)

DVD

**To select and play the desired title and chapter:**
**In the stop mode**

**1** Whilst in the stop mode, press the DIRECT button.

**TV screen**




**2** Within 10 seconds, enter the title number first then only can enter the chapter number by using the Direct Search buttons. Press ◄ or ► button for title or chapter selection.
Example:
To select title or chapter 1: Press “1”.
To select title or chapter 12: Press “10+” and “2”.
To select title or chapter 22: Press “10+” twice and “2”.

## Basic operation (continued)

**In the playback mode**

**1** Whilst in the playback mode, press the DIRECT button.

**TV screen**

**2** Select the title or chapter by pressing the ▲ or ▼ button and press the ENTER button.

**3** Enter the title or chapter number using the Direct Search buttons.
To select chapter 1: Press "0" and "1".
To select chapter 12: Press "1" and "2".
Playback starts after you complete enter the number(s).

**4** Press the DIRECT button to return to the actual size of image (standard screen).

**Notes:**
- Direct play feature is disabled on some discs.
- Some discs may not display the chapter number.
- With DVDs, you can specify the desired point only in the current title and not in another title.

**To play by specifying time (time search):**
You can playback from the desired point by specifying the time.

**1** Whilst in the playback mode, press the DIRECT button.

**TV screen**

**2** Press ▼ or ▲ button to select "TT Time" then press the ENTER button.

**3** Specify the time with the Direct Search buttons.

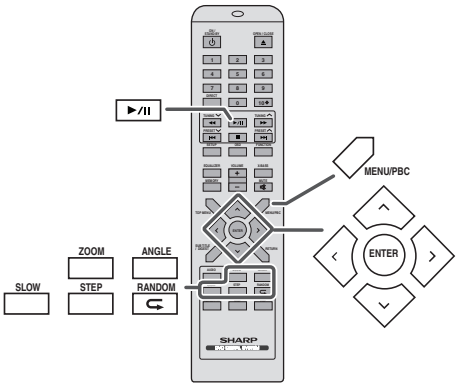
TT Time 1:23:40

- To specify 1 hour 23 minutes and 40 seconds, enter "12340".
- If you enter the wrong number, start over from step 1.
- Playback starts after you complete enter the number(s).

**4** Press the DIRECT button to return to the actual size of image (standard screen).

**Notes:**
- Some discs cannot play from the specified point.
- Time search feature is disabled on some discs.

## Useful operation




### ■ Still picture

DVD SVCD VCD DivX

You can freeze the picture during playback.

**1** Whilst a disc is playing, press the ►/II button.

**2** The image or picture will freeze on TV screen. **"II"** appears on the TV screen.
- The unit display counter will blink.

**Note:**
The sound is muted during still picture.

### ■ Step function (Frame by frame advance playback)

DVD SVCD VCD DivX

You can advance frame by frame.

**1** Whilst a disc is playing, press the STEP button. Each press of the STEP button advances the frame.

**2** Press the ►/II button to return to the normal playback.

**Notes:**
- Frame playback operates forward only.
- Still picture and frame advance features are disabled on some discs.
- The sound is muted during step function.

### ■ Slow-motion play

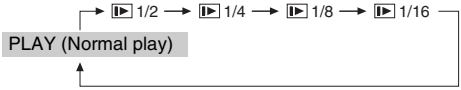
DVD SVCD VCD DivX

You can slow down the playback speed.

**1** Whilst a disc is playing, press the SLOW button repeatedly to select the desired speed.
On DVD, the speed changes as follows:

SLOW forward play
►I 1/2 → ►I 1/4 → ►I 1/8 → ►I 1/16
PLAY (Normal play)
◄I 1/16 ← ◄I 1/8 ← ◄I 1/4 ← ◄I 1/2
SLOW reverse play

On SVCD/VCD/DivX, only forward play is possible and the speed changes as follows:




**2** Press the ►/II button to return to the normal playback.

**Note:**
On some discs, the slow-motion play functions are disabled.

## ■ To change the angle

DVD

You can change the angle of view when playing a DVD disc that contains scenes recorded from multiple angles.

**When " " is displayed in the upper right corner of the TV screen, press the ANGLE button repeatedly to select the desired angle number.**

**Notes:**
- The angle number is not displayed if angles are not recorded on the disc.
- Refer to the manual of the disc as the operation may vary depending on the disc.

## ■ To zoom images (zoom)

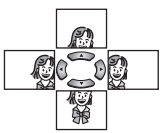
DVD SVCD VCD DivX

You can magnify images during playback.

**1** Whilst a disc is playing, press the ZOOM button.
Each press of the ZOOM button cycles through the zoom setting as follows:

2 X → 3 X → 4 X → 1/2 → 1/3 → 1/4 → OFF

**2** To shift the view and display the desired part of a zoomed image, press the ▲, ▼, ◄ or ► button repeatedly.



**To return to normal view:**
Press the ZOOM button repeatedly.

**Notes:**
- Images may become distorted when zoomed.
- Subtitles cannot be zoomed.

## ■ To play repeatedly (repeat play)

DVD SVCD VCD CD MP3

You can play a chapter (track) or a title repeatedly by specifying it during playback.
When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 22).

**1** Whilst a disc is playing, press the RANDOM/⇄ button.

**TV screen**

Each time the button is pressed, the repeat play mode changes in the following order.
The repeat play mode changes as follows on DVD:

Repeat the currently playing chapter.
Repeat the currently playing title.
Repeat the currently playing disc.
The normal playback.

The repeat play mode changes as follows on SVCD/VCD:

Repeat the currently playing track.
Repeat the currently playing disc.
The normal playback.

The repeat play mode changes as follows on audio CD:

Repeat the currently playing track.
Repeat the currently playing disc.
Randomly play the track.
The normal playback.

MP3, DivX and JPEG are displayed when menu screen is "ON" (see page 25).

**2** To return to the normal playback, press the REPEAT button repeatedly until no display on TV screen.

**Caution:**
After performing repeat play, be sure to press the ■ button. Otherwise, the disc will play continuously.

**Note:**
On some discs, the repeat play function is disabled.

## ■ To play the contents between the specified points repeatedly (A-B repeat)

DVD SVCD VCD CD MP3

You can play the desired portion repeatedly by specifying it during playback.

**1** Whilst a disc is playing, press the A - B button.

**TV screen**

↻ A

This registers the start point (A).

**2** Press the A - B button again to enter the end point (B).

**TV screen**

↻ AB

This starts A-B repeat play from the start point (A) to the end point (B).

**3** Press the A - B button to return to the normal playback.

**Notes:**
- A-B repeat play is disabled on some discs.
- A-B repeat play for DVD is possible only within a title.
- A-B repeat play for SVCD/VCD is possible only within a track.
- Some scenes on DVD may not allow A-B repeat play.

## ■ To select a title from the top menu of the disc

DVD

On a DVD with multiple titles, you can select a title from the top menu.

**1** Whilst in the stop or playback mode, press the TOP MENU button to display the title menu.

Example

| | |
|---|---|
| 1 Drama | 2 Action |
| 3 SF | 4 Comedy |

**2** Use the ▲, ▼, ◄ or ► button to select a title, and then press the ENTER button.
- The selected title plays.
- Or use the Direct Search buttons for some discs.

**Note:**
The procedure shown here provides only general steps. The actual procedure for using the title menu depends on the disc. See the disc jacket for details.

## ■ To select a subtitle or audio language from the disc menu

DVD

You can select the desired subtitle or audio language and sound system on your DVD if it has a disc menu.

**1** Whilst in the stop or playback mode, press the MENU/PBC button to display the disc menu.

Example

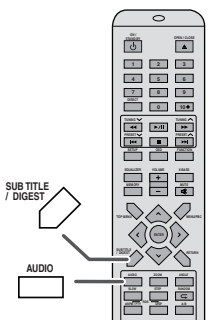
Main Menu
1.Hightlights
2.Start Movie

**2** Press the ▲, ▼, ◄ or ► button to change the setting and press the ENTER button.
Or use the Direct Search buttons for some discs.

**Note:**
The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc. See the disc jacket for details.

# Various settings

The subtitle language, audio language and TV type you select during playback are reset each time you set this unit to the stand-by mode or switch the input. To keep your own settings, set them in the Set up menu (see page 10).




## ■ To change the subtitle language

DVD SVCD

You can change the subtitle language or hide subtitles during playback.

**Whilst a disc is playing, press the SUB TITLE / DIGEST button repeatedly to select the desired subtitle language.**

SUBTITLE 01/03 ENGLISH

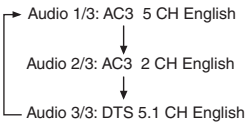
**Notes:**
- On some discs, the subtitle language cannot be changed.
- If no subtitles are recorded on the disc, "⊘" is displayed.
- It may take time to switch the subtitle language to the selected one.
- Subtitles cannot be hidden on some DVDs.

## ■ To change the audio channel

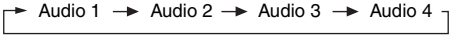
DVD SVCD VCD

You can select an audio channel.

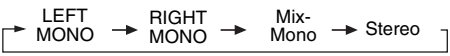
Whilst a disc is playing, press the AUDIO button repeatedly to select the desired audio channel.
E.g.: The audio channel changes as follows on DVD:




The audio channel changes as follows on SVCD:

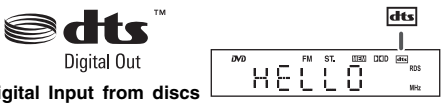



The audio channel changes as follows on VCD:




**Note:**
The audio channel may not be changed on some discs.

### DTS (Digital Out)




**Digital Input from discs with this trademark**

One of the digital audio systems for theatrical use. As the sound quality is emphasised, you can enjoy the realistic sound effect in the home theatre system.
The DTS indicator will light up when the disc recorded in DTS is played back.

### Dolby Digital

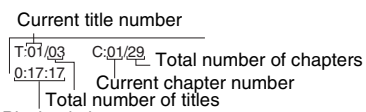
**Digital Input from discs with this trademark**

One of the digital audio systems for theatrical use. You can enjoy the stereophonic effect in the home theatre system.
The DD DIGITAL indicator will light up when the disc recorded in DD DIGITAL is played back.

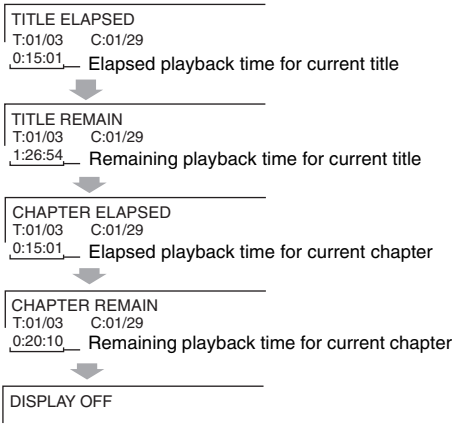
## ■ To change the display on TV screen

DVD SVCD VCD CD DivX

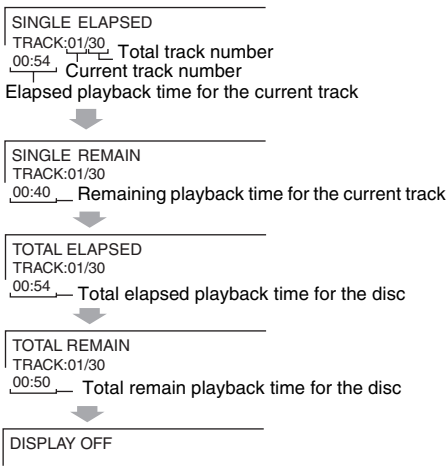
You can display or hide the operation indicators on the TV screen.
**Whilst a disc is playing, press the OSD button. (The display is changed at each press.)**



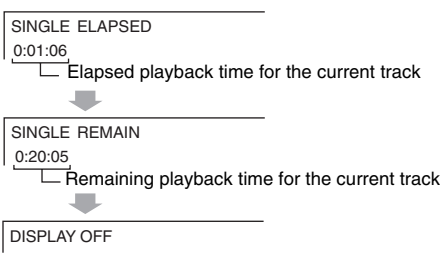

**DVD:**




**SVCD/VCD/CD:**




**DivX:**

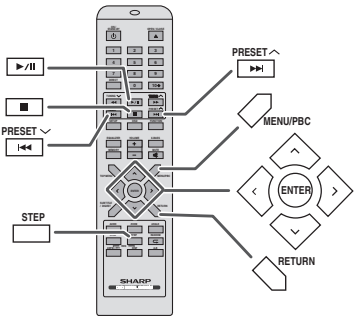



**Note:**
When P.B.C. is set to ON for SVCD or VCD, total elapsed playback time and total remaining playback time do not appear.

# Video CD and Super Video CD playback

**The following playback functions are the same as DVD or CD operations.**


| | Page |
|---|---|
| **To locate the beginning of a chapter (track) (skip)** | 17 |
| **Fast forward/Fast backward (search)** | 17 |
| **Still picture** | 18 |
| **Slow-motion play** | 18 - 19 |
| **To zoom images (zoom)** | 19 |
| **To play repeatedly (repeat play)** | 19 |
| **To play the contents between the specified points repeatedly (A-B repeat)** | 20 |
| **To change the audio channel** | 21 |


## ■ Playback of a video CD (super video CD) with P.B.C. ON

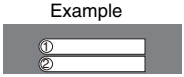
SVCD VCD

This unit handles video CDs that support P.B.C. (version 2.0). P.B.C. is an abbreviation of "Playback control". These discs have a menu that is displayed on the TV screen. You can play interactive games and make use of other software with the retrieval function (menu playback).

**1** Press the MENU/PBC button with PBC ON.

The menu will appear on the TV and playback will be paused.

Example




**2** Select the desired menu number using the Direct Search buttons.
- Playback starts.
- After playback stops, the menu will reappear. Select the menu number to play.

**To interrupt playback:**
Press the ►/II button.
To resume playback from the same point, press the ►/II button.

**To stop playback:**
Press the ■ button twice.

**To stop the current operation and return to the menu:**
Press the RETURN button.

**The P.B.C. function will not work in the following conditions.**
Repeat/programmed/direct play or the skip feature is in operation.

**Note:**
The menu screen cannot be scrolled on some discs.

## ■ To play without activating the playback control function

SVCD VCD

You can play a video CD (super video CD) with P.B.C. without activating the playback control function.
In this case, the menu screen will not appear, and the disc will play in the same way as a video CD (super video CD) without P.B.C.

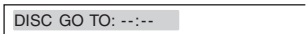
Whilst in the stop or playback mode, press the MENU/PBC button to cancel the P.B.C. mode.
- TV screen will show "PBC OFF" then playback will start.

**Note:**
Some video CDs (super video CDs) with P.B.C. cannot be played back when the P.B.C. mode is off.

## ■ To start playback from the desired point (direct play)

**To play by specifying time (time search):** SVCD VCD
Cancel the P.B.C. (playback control).

**1** During stop, press the DIRECT button.



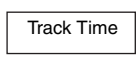

**2** Specify the time with the Direct Search buttons.
- Enter minutes and seconds.
- To specify 1 hour 23 minutes and 40 seconds, enter "8340".
- If you enter the wrong number, start over from step 1.
- Playback starts (automatically) after you complete enter the number(s).

**In the playback mode:**

**1** Whilst in the playback mode, press the DIRECT button.

**2** Press ▼ or ▲ button to select "Track Time" then press the ENTER button.

**3** Specify the time with the Direct Search buttons.




- To specify 1 hour 23 minutes and 40 seconds, enter "12340".
- If you enter the wrong number, start over from step 1.
- Playback starts (automatically) after you complete enter the number(s).

**4** Press the DIRECT button to return to the actual size of image (standard screen).

**Notes:**
- Some discs cannot play from the specified point.
- Time search feature is disabled on some discs.
- Time search feature is not available on MP3 and JPEG discs.

## ■ Random play

CD

The tracks on the disc(s) can be played in random order automatically.

**1** Whilst in the stop or playback mode, press the REPEAT button on the remote control until "RANDOM" is shown.

**TV screen** **Unit display**

RANDOM

RANDOM

**2** Random playback will start.
- Main set will show "RANDOM" after a track being played.

**Unit display**

RANDOM

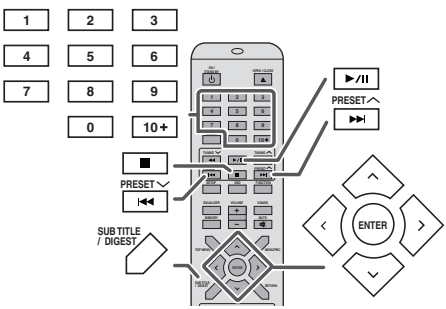
**3** To cancel random play, press the RANDOM/⇄ button until the "RANDOM" indicator on TV is gone.

**Notes:**
- If you press the ⏭ button during random play, you can move to the track selected next by the random operation. If you press the ⏮ button, the beginning of the track being played is located.
- In random play, the CD player will select and play tracks automatically. (You cannot select the order of the tracks.)

**Caution:**
After performing repeat or random play, be sure to press the ■ button. Otherwise, the disc(s) will play continuously.

## ■ Disc digest selection

SVCD VCD

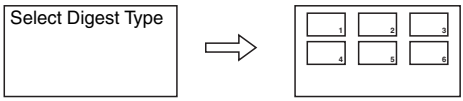



You can playback a desired track by selecting one from the 6 displayed tracks on the screen.

**1** Press the SUB TITLE/DIGEST button.

**2** Select digest type by using cursor ∧ or ∨ button and then press ENTER button:
- Track digest (disc will be divided by tracks)
- Disc Interval (disc will be divided into 10 minutes interval)
- Up to 6 tracks will be displayed on the screen.

**TV screen**




**3** Press the Direct Search buttons on the remote control to select the desired track.
Playback will be started from the selected track after pressing the ►/II button.

**When there are more than 6 tracks on the video CD:**
Each press of the ⏭ button will display the next 6 tracks. Press the ⏮ button to return to the previous display.

**To cancel the disc digest:**
Select EXIT and press ENTER button.

## ■ Track digest selection

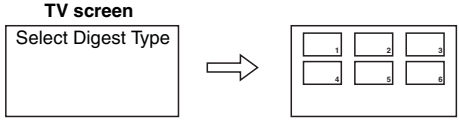
You can look at the sections and select the scene you want to start watching from. This function is convenient when you want to start from the middle of an undivided track, for example, a movie.

**1** During playback, press the SUB TITLE/DIGEST button.

**2** Select "Track Interval" by using cursor ∧ or ∨ button and then press ENTER button.
- The current track will be divided into 10 minutes interval.

The track being played will be divided into 6 sections and playback will be paused.

**TV screen**




**3** Press the Direct Search buttons on the remote control to select the scene you want to watch.

Playback will start from the selected scene after pressing the ►/II button.

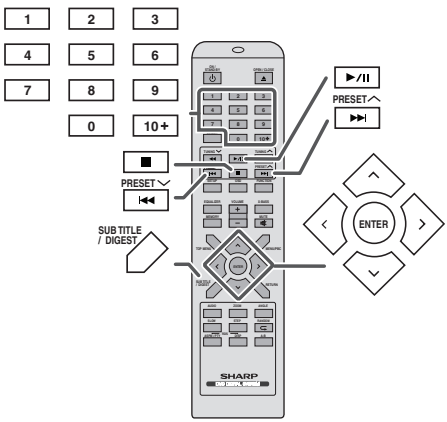
**To cancel the track digest operation:**
Select EXIT and press ENTER button.

**Notes:**
- The track digest function works only during playback.
- One track is divided into six frames of equal playing time.

This system can play back a standard CD, CD-R/RW in the CD format and CD-R/RW with MP3 or WMA files, but cannot record on them.
Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the device that was used for recording.

**The following playback functions are the same as DVD or VCD operations.**


| | Page |
|---|---|
| **Playback** | **16** |
| **To locate the beginning of a chapter (track) (skip)** | **17** |
| **Fast forward/Fast backward (search)** | **17** |
| **To play repeatedly (repeat play)** | **19** |
| **To play the contents between the specified points repeatedly (A-B repeat)** | **20** |
| **To change the display on TV screen** | **21** |

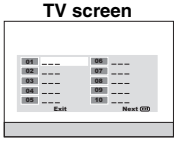

## ■ To play in the desired order (programmed play)

CD SVCD VCD

You can playback the desired tracks in a specific order. Maximum of 20 tracks can be programmed.

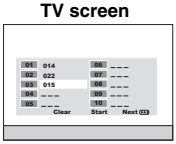
**1** Whilst in the stop or playback mode, press the MEMORY button.

**TV screen**



**2** Enter a track number with the Direct Search buttons.
- If you enter the wrong numbers, press ▲ or ▼ button to select the concerned track and then reenter the correct numbers.

**TV screen**



**3** Press ▼ button to select “Start” then press ENTER button to start playback the programmed track(s).

**To change the programmed contents:**
Repeat the above procedures from step 1.

**Programmed contents will be cleared when you perform the following operations:**
- Switch the input or remove the discs.
- Set to the stand-by mode.
- Press the cursor button to select “Clear” and then press ENTER button.

**Notes:**
- Sequential programming does not work if the disc disables programming or does not have track information.
- During programmed play, repeat play can be performed by pressing the RANDOM/⊂ button (see page 19).

## ■ To start playback from the desired point (direct play)

**To select and play the desired track:** CD

**Whilst in the stop or playback mode, press the Direct Search buttons to select the track number.**

**To select track 14: Press “10+” and “4”.**

**TV screen**

SELECT TRACK: 14/30

**Unit display**

14 0002

**To play by specifying time (time search):** CD

**1** During stop or playback mode, press the DIRECT button once and “DISC GO TO” appear on TV screen.

**TV screen**

DISC GO TO: --:--

**2** Specify the time with the Direct Search buttons.
- Enter minutes and seconds.
- To specify 1 hour 23 minutes and 40 seconds, enter “8340”.
- If you enter the wrong number, start over from step 1.

**Notes:**
- Direct play feature is disabled on some discs.
- Some disc cannot play from the specified point.
- Time search feature is disabled on some discs.

**MP3:**
**MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.**
**MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.**
- This system supports MPEG 1 Layer 3 and VBR files.
- During VBR file playback, time counter in the display may differ from its actual playback time.
- Bitrate which is supported by MP3 is 32 ~ 320 kbps.

**WMA:**
**WMA files are Advanced System Format files that include audio files which are compressed with Windows Media Audio codec. WMA is developed by Microsoft as an audio format file for Windows Media Player.**
- Bitrate which is supported by WMA is 64 ~ 160 kbps.

**The following playback functions are the same as DVD or VCD operations.**

**Page**
**Playback. . . . . 16**
**To locate the beginning of a chapter (track) (skip) . . 17**
**Fast forward/Fast backward (search) . . . . . 17**
**To change the display on TV screen . . . . . 21**

## ■ To start playback from the desired point (direct play)

**To play by specifying time (time search):** DivX

**1** During playback, press the DIRECT button twice.

**TV screen**

GO TO _: __:__

**2** Specify the time with the Direct Search buttons.
- Enter minutes and seconds.
- To specify 1 hour 23 minutes and 40 seconds, enter "12340".
- If you enter the wrong number, start over from step 1.
- You can check the total playback time of the track by refer to the page 21.

**To select and play the desired track:** MP3

**1** Whilst in the stop or playback mode, press the Direct Search buttons or press DIRECT button and then enter the desired track number(s).

**TV screen**

---/150
↑
Total of tracks

If the desired track is 25, press "0", "2" and "5".

**2** Playback will start automatically on selected track.

**Notes:**
- Direct play feature is disabled on some discs.
- Some discs cannot play from the specified point.

## ■ Playback on the MP3 menu screen

MP3 JPEG

You can play CD-R/RW recorded in the MP3/WMA and JPEG formats.

**1** Load a disc containing MP3/WMA, JPEG and DivX files, the menu screen appears.

··· Indicates folders.

··· Indicates MP3 data.

··· Indicates JPEG data.

··· Indicates DivX data.

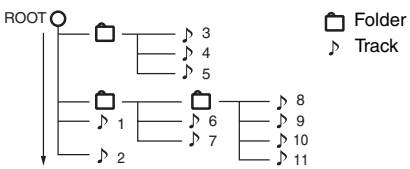
··· Indicates WMA.

**2** Press the ▲, ▼, ◄ or ► button to select a folder or a track and press the ENTER or ►/II button.
- Playback starts when you select a track.
- When the format is JPEG, the next file is automatically displayed after a whilst.
- You can use the ◄ or ► button to rotate the JPEG picture (see page 27).
- Using the Direct Search buttons, you can open files or folders directly. Enter the number on the right of the display.
- To return to menu screen press the MENU/PBC button.

**Caution:**
If you convert MP3 data to "audio CD" data to record on a CD-R/RW, play it as an audio CD. The MP3 operation cannot be performed.

**Notes:**
- Up to 20 characters can be displayed for a folder name and a track name. Underlines, asterisks, and spaces may not be displayed.
- This function is only visible when unit is connected to TV.

**About folder playback order:**
When the MP3/WMA menu screen is on, tracks are played in the following order. Playback is performed in the order of 1 to 11 in the following example.




Tracks on some discs cannot be played in order.

**Notes:**
- It will take some time for the disc to be read if there are too many files and folder.
- Up to 512 numbers of folders and files inclusives of the folders with non playable files can be read.

## ■ To play repeatedly (repeat play)

MP3 JPEG DivX

**Repeat play on the DivX menu screen:**
Whilst a disc is playing, press the RANDOM/⇆ button. Each time the button is pressed, the repeat play mode changes in the following order.

**TV screen**

"SINGLE" No repeat the currently playing track.
↓
"REPEAT ONE" Repeat the currently playing track.
↓
"REPEAT ALL" Repeat all the tracks.
↓
"REPEAT OFF" Repeat play is cancelled.

**Repeat play on the JPEG menu screen:**
**Condition A**
You can play all images in the disc. Playback will stop after complete playback all the images in the disc.
To perform repeat play, press the RANDOM/⇄ button whilst in the stop mode and then press the ENTER button. Each time the button is pressed, the play mode changes in the following order:

| TV screen | |
|---|---|
| "RANDOM" | Randomly repeat play the tracks (images). |
| "SINGLE" | No repeat the currently playing track (image). |
| "REPEAT ONE" | Repeat the currently playing track (image). |
| "REPEAT ALL" | Repeat play all the tracks (images) in the disc. |
| "REPEAT OFF" | Repeat play is cancelled. |

**Condition B**
You can play images after select each folder inside the disc. Whilst in the main menu screen, press the MEMORY button. All the folders will be viewed on the TV screen (folder on). The playback will stop after complete playback all the images in the currently playing folder.
To perform repeat play, press the RANDOM/⇄ button whilst in the stop mode and then press the ENTER button. Each time the button is pressed, the play mode changes in the following order:

| TV screen | |
|---|---|
| "RANDOM" | Randomly repeat play the tracks (images). |
| "SINGLE" | No repeat the currently playing track (image). |
| "REPEAT ONE" | Repeat the currently playing track (image). |
| "REPEAT FOLDER" | Repeat play all the tracks (images) in the currently playing folder. |
| "FOLDER" | Repeat play is cancelled. |

**Notes:**
- To view back the file list, press the MEMORY button whilst in the main menu screen.
- To return to the main menu screen whilst playback, press the MENU/PBC button.

**Repeat play on the MP3/WMA menu screen:**
**Condition A**
You can play all songs in the disc. Playback will stop after complete playback all the songs in the disc.
To perform repeat play, press the RANDOM/⇄ button whilst in the stop mode and then press the ENTER button. Each time the button is pressed, the play mode changes in the following order:

| TV screen | |
|---|---|
| "RANDOM" | Randomly repeat play the tracks (songs). |
| "SINGLE" | No repeat the currently playing track (song). |
| "REPEAT ONE" | Repeat the currently playing track (song). |
| "REPEAT ALL" | Repeat play all the tracks (songs) in the disc. |
| "REPEAT OFF" | Repeat play is cancelled. |

**Condition B**
You can play songs after select each folder inside the disc. Whilst in the main menu screen, press the MEMORY button. All the folders will be viewed on the TV screen (folder on). The playback will stop after complete playback all the songs in the currently playing folder.
To perform repeat play, press the RANDOM/⇄ button whilst in the stop mode and then press the ENTER button. Each time the button is pressed, the play mode changes in the following order:

| TV screen | |
|---|---|
| "RANDOM" | Randomly repeat play the tracks (songs). |
| "SINGLE" | No repeat the currently playing track (song). |
| "REPEAT ONE" | Repeat the currently playing track (song). |
| "REPEAT FOLDER" | Repeat play all the tracks (songs) in the currently playing folder. |
| "FOLDER" | Repeat play is cancelled. |

**Note:**
To view back the file list, press the MEMORY button whilst in the main menu screen.

**Caution:**
After performing repeat, be sure to press the ■ button. Otherwise, it will play continuously.

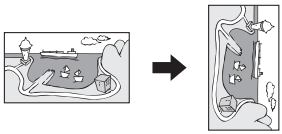
## ■ Rotating a picture

JPEG

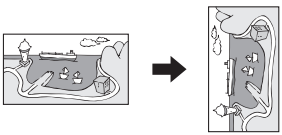
You can rotate images.

**During playback, press the ◄ or ► button.**
**The image rotates as shown below.**

► button : 90° rotation in a clockwise direction.



◄ button : 90° rotation in an anti-clockwise direction.



## ■ Simultaneously playback the MP3 and JPEG

You can enjoy to see images of JPEG files whilst listening to the musics of MP3 at the same time.

**1** Playback the desired songs.

**2** Press ◄ button to return to the main menu.

**3** Select JPEG folder using ▲ or ▼ button.

**4** Select the images or pictures those you want to view.

**5** Press the ENTER button.

**Notes:**

- Whilst playing the images, you can not select the MP3/WMA folder or files.
- JPEG maximum resolution is 2Mbytes of file size.

## ■ Random play (REMOTE CONTROL ONLY)

The tracks/images on the disc(s) can be played in random order automatically.

**To random play all tracks/images:**

During stop mode, press the RANDOM/⇄ button to select "RANDOM" then press ►/II button to play.

To cancel random playback, press the RANDOM/⇄ button repeatedly until "REPEAT OFF" / "FOLDER" appear.

**Notes:**

- If you press the ⏮ or ⏭ button during random play, you can move to the track selected next by the random operation.
- In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)
- During random play, repeat function is not possible.
- In random function, playback will stop after all the tracks are played randomly.

**Note:**

(※) When in folder mode, the selected playmode can be used for the files in the selected folder only.

**Notes:**

- This unit only supports "MPEG-1 Audio Layer-3" format. (Sampling Frequency is 32, 44.1, 48kHz) "MPEG-2 Audio Layer-3", "MPEG-2.5 Audio Layer-3" and MP1, MP2 format are not supported.
- Playback order for MP3 files may differ sometimes depending on the writing software used during file downloading.
- Bitrate which is supported by MP3 is 32~320 kbps, WMA is 64~160 kbps.
- For MP3/WMA files, please put ".MP3" ".WMA" extension. Files cannot be played back if there is no MP3/WMA extension.
- Playlists are not supported on this unit.
- The display playback time may not be displayed correctly when playing back a variable bitrate file.
- Copyright protected WMA files cannot be played back.

**To play back MP3/WMA (Windows Media Audio) file**
There are many music sites on the internet that you can download MP3/WMA (Windows Media Audio) music files. Follow the instructions from the website on how to download the music files.
You can then play back these downloaded music files by burning them to a CD-R/RW disc.

- Your downloaded song/files are for personal use only. Any other usage of the song without owner's permission, is against the law.

## ■ About folder playback order

If MP3/WMA files are recorded in several folders, a folder number will be set to each folder automatically.

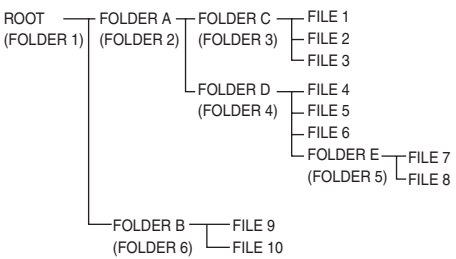
These folder can be selected by the ▲, ▼, ◄ or ► button on the remote control. If there is not supported file formats inside the selected folder, the folder is skipped and the next folder will be selected.

Example: How to set folder number if MP3/WMA format files are recorded as below figure.

1. ROOT folder is set as folder 1.
2. As for folders inside ROOT folder (Folder A and Folder B), the folder which is recorded earlier on the disc will be set as folder 2.
3. As for folder inside Folder A (Folder C and Folder D), the folder which is recorded earlier on the disc will be set as folder 3.
4. Because there is no folder in Folder C, Folder D will be set as folder 4.
5. Folder E that is inside Folder D will be set as folder 5.
6. Folder B inside ROOT folder will be set as folder 6.

* The folder and file order information which is recorded on the disc depends on the writing software. There may be possibilities that this unit will play back the files not according to our expected playback order.

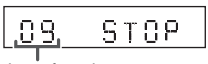
All the files inside the selected folder will be played back. In case Folder D is selected, file 4, 5 and 6 will be played back. File 7 and 8 in Folder E will not be played back.




## ■ Procedure to playback MP3/WMA disc

To playback CD-R/RW.

**1** Load an MP3/WMA disc and unit display will show total number of tracks in STOP mode.



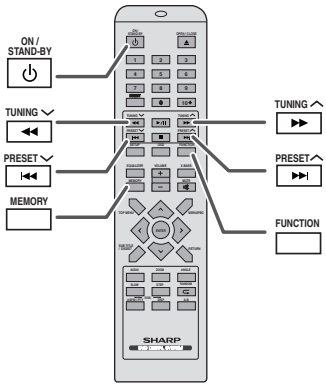

Total number of tracks

**2** Press the ▲, ▼, ◄ or ► button on the remote control to select the desired playback folder and track.

- To start playback with folder mode, press the MEMORY button to view Folder mode.
- To change the playback folder, press the ◄ direction key to select another folder.

**3** Press the ►/II or ENTER button and playback will start.

- Press the MEMORY button to display all folders on the disc.




## ■ Tuning

**1** Press the ON/STAND-BY button to turn the power on.

**2** Press the FUNCTION button repeatedly to select the TUNER (FM) mode.

**3** Press the TUNING (∨ or ∧) button to tune in to the desired station.

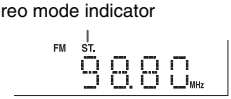
**Manual tuning:**
Press the TUNING (∨ or ∧) button as many times as required to tune in to the desired station.

**Auto tuning:**
When the TUNING (∨ or ∧) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

**Notes:**
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING (∨ or ∧) button again.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light up. Finally, the station name will appear.
- Full auto tuning can be achieved for RDS stations "ASPM", see page 30.
- Tuning will stop when reach to 87.50 MHz or 108.00 MHz.

**To receive an FM stereo transmission:**
Press the AUDIO button to select FM mono or FM stereo.
- "ST" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the AUDIO button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

FM stereo mode indicator

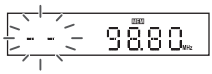



## ■ Memorising a station

Up to 40 stations for FM band can be stored and recalled at the push of a button. (PRESET (∨ or ∧))

**1** Perform steps 1 - 3 in "Tuning".

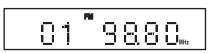
**2** Press the MEMORY/DISP button to enter the preset tuning saving mode.




**3** Within 6 seconds, press the Direct Search buttons to select the preset channel number.

Enter the channel number using the Direct Search buttons.
To select channel 1: Press "0" and "1".
To select channel 12: Press "1" and "2".

**4** Press MEMORY button to memorise the station. The preset is memorised when the "MEM" indicator is gone.




If the "MEMORY" and preset number indicators disappear before the station is memorised, repeat the operation from step 2 onwards.

**5** Repeat steps 1 - 4 to set other stations or to change a preset station.

When a new station is stored in memory, the station previously memorised for that preset channel number will be erased.

**Note:**
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead become disconnected.

## ■ To recall a memorised station

Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

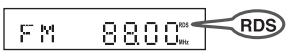
**RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sport, music, etc.**
When tuned to an RDS station, “RDS” and the station name will be displayed.

## ■ Using the Auto Station Programme Memory (ASPM)

Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored.
If you have already stored some stations in memory, the number of new stations you can store will be less.

**1** Press the FUNCTION button to select the TUNER.

**2** Press and hold the RDS (ASPM/PTY) button on the remote control.
1 Scanning will start (87.50 - 108.00 MHz).
2 When an RDS station is found, “RDS” will appear for a short time and the station will be stored in memory.




**3** After scanning, the number of stations stored in memory will displayed for 4 seconds and then “END” will appear for 4 seconds.

**Note:**
ASPM auto scan search will auto stop after 1 cycle from 87.50 MHz to 108.00 MHz.

**To stop the ASPM operation before it is complete:**
Press the RDS (ASPM/PTY) button whilst it is scanning for stations.
The stations which are already stored in memory will be kept there.

**Notes:**
- Any station which has the same frequency as one stored in memory will not be stored.
- If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- In the RDS signals are very week, station names may not be displayed.

**Note:**
In a certain area or during certain time periods, the station names may temporarily be different.

## ■ Notes for RDS operation

**If any of the following events occur, it does not mean that the unit is faulty:**
- “PS”, “NO PS” and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.
- “NO PS”, “NO PTY” or “NO RT” will flash for about 5 seconds, and then the frequency will be displayed.

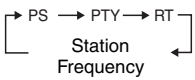
**Notes for radio text:**
- The first 8 characters of the radio text will appear for 4 seconds and then they will scroll across the display.
- If you tune in to an RDS station which is not broadcasting any radio text, “NO RT” will be displayed when you switch to the radio text position.
- Whilst radio text data is received or when the text contents change, “RT” will be displayed.

## ■ To show Radio Data System signals on display

Select an FM station with Radio Data System signals.

**1** Press the TUNER (BAND) button to select the FM.

**2** Press the RDS (DISP) button on the remote control.
- The display will switch as follows:




- **PS (Programme Service):**

Whilst searching, “PS” alternately appear on the display.
Then, the station name appears. “NO PS” appears if no signal is sent.

- **PTY (Programme Type):**

Whilst searching, “PTY” alternately appear on the display.
Then, the broadcast programme type appears. “NO PTY” appears if no signal is sent.

- **RT (Radio Text):**

Whilst searching, “RT” alternately appear on the display.
Then, the next message sent by the station appears. “NO RT” appears if no signal is sent.

- **Station Frequency:**

The frequency of the selected station appears on the display.

## ■ To recall stations in memory

**To specify programmed types and select stations (PTY search):**
You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see pages 31 - 32) from the stations in memory.

**1** Press the FUNCTION button to select the FM band.

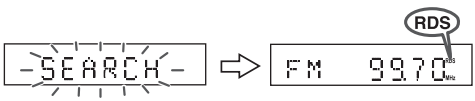
**2** Press the RDS (ASPM/PTY) button on the remote control.

Selected PTY code (blinking) will appear for about 6 seconds.

**3** Within 6 seconds, press the PRESET (∨ or ∧) button to select the PTY code.

Each time the button is pressed, the PTY code will appear.

**4** Whilst the selected PTY code is displayed (within 6 seconds), press the RDS (ASPM/PTY) button again.




- The unit searches the all preset stations and stops when it finds a station of the selected category then tunes into the station. The RDS indicator lights up.
- If no programme is found in the all preset stations, "NO PTY" appear on the display and returns to the previous station.

**Notes:**
- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will lit for about 4 seconds, and then the station name will remain it.
- If you want to listen to the same programme type of another station, press the RDS (ASPM/PTY) button and start again from step 2. The unit will look for the next station.

**Descriptions of the PTY (Programme Type) codes signal.**
You can search for and receive the following PTY.

| | |
|---|---|
| **NEWS** | Short accounts of facts, events and publicly expressed views, reportage and actuality. |
| **AFFAIRS** | Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis. |
| **INFO** | Programmes whose purpose is to impart advice in the widest sense. |
| **SPORT** | Programme concerned with any aspect of sport. |
| **EDUCATE** | Programme intended primarily to educate, of which the formal element is fundamental. |
| **DRAMA** | All radio plays and serials. |
| **CULTURE** | Programmes concerned with any aspect of national or regional culture, including language, theatre, etc. |
| **SCIENCE** | Programmes about the natural sciences and technology. |
| **VARIED** | Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews. |
| **POP M** | Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts. |
| **ROCK M** | Contemporary modern music, usually written and performed by young musicians. |
| **EASY M** | Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration. |
| **LIGHT M** | Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works. |
| **CLASSICS** | Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera. |
| **OTHER M** | Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples. |
| **WEATHER** | Weather reports and forecasts and meteorological information. |
| **FINANCE** | Stock Market reports, commerce, trading, etc. |
| **CHILDREN** | For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate. |

## Using the Radio Data System (RDS) (continued)

| | |
|---|---|
| **SOCIAL** | Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society. |
| **RELIGION** | Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics. |
| **PHONE IN** | Involving members of the public expressing their views either by phone or at a public forum. |
| **TRAVEL** | Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used. |
| **LEISURE** | Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc. |
| **JAZZ** | Polyphonic, syncopated music characterised by improvisation. |
| **COUNTRY** | Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line. |
| **NATION M** | Current Popular Music of the Nation or Region in that country's language, as opposed to International “Pop” which is usually US or UK inspired and in English. |
| **OLDIES** | Music from the so-called “golden age” of popular music. |
| **FOLK M** | Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people. |
| **DOCUMENT** | Programme concerned with factual matters, presented in an investigative style. |
| **TEST** | Broadcast when testing emergency broadcast equipment or receivers. |
| **ALARM** | Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature. |
| **NONE** | No programme type (receive only). |

## Enhancing your system

### ■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.

## Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

### ■ General

| Symptom | Possible cause |
|---|---|
| ● When a button is pressed, the unit does not respond. | ● Set the unit to the power stand-by mode and then turn it back on.<br>● If the unit still malfunctions, reset it. |
| ● No sound is heard. | ● Is the volume level set to “0”?<br>● Are the headphones connected?<br>● Are the speaker wires disconnected? |

### ■ CD player

| Symptom | Possible cause |
|---|---|
| ● Playback does not start.<br>● Playback stops in the middle or is not performed properly. | ● Is the disc loaded upside down?<br>● Does the disc satisfy the standards?<br>● Is the disc distorted or scratched? |
| ● Playback sounds are skipped, or stopped in the middle of a track. | ● Is the unit located near excessive vibrations?<br>● Is the disc very dirty?<br>● Has condensation formed inside the unit? |

## ■ MP3/WMA/JPEG files

| Symptom | Possible cause |
|---|---|
| ● Playback does not start. | ● Is the disc loaded upside down?<br>● Are the files supported by the unit? |
| ● Some files cannot playback. | ● Are the files supported by the unit?<br>● Is it a false MP3 file?<br>● Is the JPEG file size more than 10Mbytes? |
| ● Read-in time takes very long. | ● Is the disc contain too many folders or files?<br>● Is the file size too big?<br>● Is the disc distorted or scratched? |

## ■ Remote control

| Symptom | Possible cause |
|---|---|
| ● The remote control does not operate. | ● Is the AC power lead of the unit plugged in?<br>● Is the battery polarity correct?<br>● Are the batteries dead?<br>● Is the distance or angle incorrect?<br>● Does the remote control sensor receive strong light? |

## ■ Tuner

| Symptom | Possible cause |
|---|---|
| ● The radio makes unusual noises continuously. | ● Is the unit placed near the TV or computer?<br>● Is the FM aerial placed properly? Move the aerial away from the AC power lead if it is located nearby. |

## ■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, etc.) or on the transmitter on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

## ■ If problem occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

**If such a problem occurs, do the following:**

**1** Set the unit to the stand-by mode and turn the power on again.

**2** If the unit is not restored in the previous operation, unplug and plug in the unit again, and then turn the power on.

**Note:**
If neither operation above restores the unit, clear all the memory by resetting it.

## ■ Before transporting the unit

Remove the CD from the unit. Make sure there is no CD in the disc tray. Then, set the unit to the power stand-by mode. Carrying the unit with discs left inside can damage the unit.

## ■ Clearing all the memory (reset)

At Tuner function, press and hold MEMORY button for 3 seconds.
- The unit will go stand-by mode.
- All memory content will be cleared.

**Caution:**
- This operation will erase all data stored in memory including tuner preset, and CD programme.
- To do reset in DVD/CD function, please remove any disc inside.

## ■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.
- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

## Maintenance

### ■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

**Caution:**

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

## Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

### ■ General

| | |
|---|---|
| **Power source** | AC 220 - 240 V ~, 50/60 Hz |
| **Power consumption** | Power on: 35 W<br>Power stand-by: 0.4 W(*) |
| **Dimensions** | Width: 175 mm<br>Height: 138 mm<br>Depth: 225 mm |
| **Weight** | 2.2 kg |

( * ) This power consumption value is obtained when the main unit is in stand-by mode.

### ■ Amplifier

| | |
|---|---|
| **Output power** | MPO: 40 W (20 W + 20 W) (10% T.H.D.)<br>RMS: 30 W (15 W + 15 W) (10% T.H.D.) |
| **Output terminals** | Speakers: 6 ohms<br>Headphones: 16 - 50 ohms (recommended: 32 ohms) |

## Specifications (continued)

### ■ DVD player

| | | |
|---|---|---|
| **Signal system** | PAL/NTSC colour | |
| **Supported disc types** | DVD (with the same region number on the back of the unit), SVCD, VCD, audio CD, CD-R, CD-RW, JPEG, DivX (version 3.0 ~ 6.0) | |
| **Video signal** | Horizontal resolution: 500 lines<br>S/N ratio: 70 dB | |
| **Audio signal** | Frequency characteristic | Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz)<br>20 Hz to 20 kHz (sampling rate: 96 kHz)<br>CD: 20 Hz to 20 kHz |
| | S/N radio | CD: 94 dB (1 kHz) |
| | Dynamic range | Linear PCM DVD: 95 dB<br>CD: 94 dB |
| | Total harmonic distortion ratio | 0.01% maximum |

### ■ Tuner

| | |
|---|---|
| **Frequency range** | FM: 87.5 - 108 MHz |

### ■ Speaker

| | |
|---|---|
| **Type** | 1-way type speaker system<br>10 cm Full range |
| **Maximum input power** | 30 W |
| **Rated input power** | 15 W |
| **Impedance** | 6 ohms |
| **Dimensions** | Width: 130 mm<br>Height: 170 mm<br>Depth: 210 mm |
| **Weight** | 1.56 kg/each |

SHARP

FOR LOCATION ENQUIRIES WITHIN

## AUSTRALIA

REGARDING YOUR LOCAL

SHARP APPROVED SERVICE CENTRE

VISIT OUR WEBSITE AT

## www.sharp.net.au

OR CALL SHARP CUSTOMER CARE

## 1300 135 022

(LOCAL CALL COSTS APPLY WITHIN AUSTRALIA)

**SHARP CORPORATION OF AUSTRALIA PTY LTD**

SHARP

FOR LOCATION ENQUIRIES WITHIN

## NEW ZEALAND

REGARDING YOUR LOCAL

**SHARP APPROVED SERVICE CENTRE**

VISIT OUR WEBSITE AT

## www.sharp.net.nz

CONTACT YOUR SELLING DEALER/RETAILER

OR CALL

**SHARP CUSTOMER SERVICES**

TELEPHONE: 09 573 0111

FACSIMILE: 09 573 0113

**SHARP CORPORATION OF NEW ZEALAND LIMITED**

SPform019(JUNE 2004)

SHARP

# WARRANTY

*Consumer Electronic Products*

## Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve(12) months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

**IMPORTANT**
**DO NOT RETURN THIS DOCUMENT TO SHARP**

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No. _____ Date of Purchase _____

Serial No. _____ Retailer _____

SHARP

SHARP CORPORATION OF AUSTRALIA PTY. LIMITED
ABN 40 003 039 425
1 Huntingwood Drive
Huntingwood NSW 2148

SHARP CORPORATION OF NEW ZEALAND LIMITED
59 Hugo Johnston Drive
Penrose, Auckland

SPWW0014 (JUNE 2004)

IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

SHARP®

SHARP CORPORATION

92L410DM812061

09D R MW ①